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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/805,753	03/22/2004	Ken S. Kump	GE.0004	1918
41963 RAMIREZ & S	7590 01/08/2008 SMITH		EXAM	INER
PO BOX 341179			SURYAWANSHI, SURESH	
AUSTIN, TX 7	/8/34		ART UNIT	PAPER NUMBER
		•	2115	
			NOTIFICATION DATE	DELIVERY MODE
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## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

pto@isrlaw.com pto@patent-counselors.com

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•		Application No.	Applicant(s)	
		10/805,753	KUMP ET AL.	
(	Office Action Summary	Examiner	Art Unit	
		Suresh K. Suryawanshi	2115	
<i>– Ti</i> Period for R	he MAILING DATE of this communication app eply	ears on the cover sheet wi	th the correspondence address -	
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Status				
1)⊠ Re	sponsive to communication(s) filed on 22 M	arch 2004.		
, <del></del>	• • • • • • • • • • • • • • • • • • • •	action is non-final.		
3) <u> </u>	ce this application is in condition for allowar	nce except for formal matte	ers, prosecution as to the merits is	
clo	sed in accordance with the practice under E	x parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition	of Claims			
4)⊠ Cla	nim(s) <u>1-44</u> is/are pending in the application.			
-	Of the above claim(s) is/are withdraw			
•	nim(s) is/are allowed.			
′=	nim(s) <u>1-44</u> is/are rejected.			
·	nim(s) is/are objected to.			
·	nim(s) are subject to restriction and/o	r election requirement.		
Application	Papers			
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· =	e specification is objected to by the Examine e drawing(s) filed on <u>22 March 2004</u> is/are:		ected to by the Examiner	
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• •	placement drawing sheet(s) including the correct	*		
	e oath or declaration is objected to by the Ex			
,	er 35 U.S.C. § 119			
_	nowledgment is made of a claim for foreign	priority under 35 H S C &	: 119(a)-(d) or (f)	
	All b) ☐ Some * c) ☐ None of:	priority under 35 0.5.C. §	1 19(a)-(u) or (i).	
·	☐ Certified copies of the priority document	s have been received		
_	<ul><li>Certified copies of the priority document</li></ul>		polication No	
	Copies of the certified copies of the prior			
_			,	
_	application from the International Bureau			

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date \_\_\_\_\_.

Attachment(s)

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. \_\_\_\_\_.

6) Other: \_\_\_

5) Notice of Informal Patent Application

10/805,753 Art Unit: 2115

#### **DETAILED ACTION**

1. Claims 1-44 are presented for examination.

#### Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 27-29 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

- 3. Claims 27-28 are directed to carrier wave, which does not fall within any of the four statutory categories of invention. It has been upheld that a carrier wave does not fall with a statutory category of invention (see MPEP 2106 and Interim Guidelines for Subject Matter Eligibility, Annex IV). Therefore, claims 27-28 are drawn to non-statutory subject matter.
- 4. Claim 29 is directed to digital data stream, which do not fall within any of the four statutory categories of invention. It has been upheld that a digital data stream does not fall with a statutory category of invention (see MPEP 2106 and Interim Guidelines for Subject Matter Eligibility, Annex IV). Therefore, claims 27-28 are drawn to non-statutory subject matter.

10/805,753 Art Unit: 2115

#### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Tsujii et al (US Patent 7,079,189; hereinafter Tsujii).
- 7. As per claim 1, Tsujii discloses a method to manage power consumption of a medical imaging detector comprising:

receiving a first triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; a first triggering signal 601];

changing the medical imaging detector to a first power consumption state based on the first triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; phase 1 to phase 2];

10/805,753

Art Unit: 2115

receiving a second triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; a second triggering signal 602]; and

Page 4

changing the medical imaging detector to a second power consumption state based on the received second triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; phase 2 to phase 3].

8. As per claim 14, Tsujii discloses a computer-accessible medium having executable instructions to manage power consumption of a medical imaging detector, the executable instructions capable of directing a processor to perform:

processing a received first triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; a first triggering signal 601];

changing the medical imaging detector to a first detector power consumption state based on the processed first triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; phase 1 to phase 2];

processing a received second triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; a second triggering signal 602]; and

10/805,753

Art Unit: 2115

changing the medical imaging detector to a second power consumption state based on the processed second triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; phase 2 to phase 3].

Page 5

### 9. As per claim 27, Tsujii discloses

processing a received first triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; a first triggering signal 601];

changing the medical imaging detector to a first detector power consumption state based on the processed received first triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; phase 1 to phase 2];

processing a received second triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; a second triggering signal 602]; and

changing the medical imaging detector to a second power consumption state based on the processed received second triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; phase 2 to phase 3].

10/805,753 Art Unit: 2115

#### 10. As per claim 29, Tsujii discloses

processing a received first triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; a first triggering signal 601];

changing the medical imaging detector to a first detector power consumption state based on the processed received first triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; phase 1 to phase 2];

processing a received second triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; a second triggering signal 602]; and

changing the medical imaging detector to a second power consumption state based on the processed received second triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; phase 2 to phase 3].

11. As per claim 30, Tsujii discloses a medical imaging system comprising:

a digital radiographic system having a medical imaging detector [col. 1, lines 20-33; radiographic information recording/reproducing system];

10/805,753 Art Unit: 2115

a first device for generating a first triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; a first triggering signal 601];

device for automatically changing the medical imaging detector to a first detector power consumption state based on the first triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; phase 1 to phase 2];

a second device for generating a second triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; a second triggering signal 602]; and

device for changing the medical imaging detector to a second power consumption state based on the second triggering signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; phase 2 to phase 3].

- 12. As per claims 2, 15 and 31, Tsujii discloses that the received first triggering signal is an activation signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; a first triggering signal 601 is a ready signal].
- 13. As per claims 3, 16 and 34, Tsujii discloses that the first power consumption state is either an off state, an idle state, an on state, the second power consumption state is either an off

Art Unit: 2115

state, an idle state, an on state [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; see table 1].

- 14. As per claims 4, 17 and 35, Tsujii discloses that the first triggering signal is an activation signal; the first power consumption state is an idle state; the second power consumption state is either an off state, an on state [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; see table 1].
- 15. As per claims 5, 18 and 36, Tsujii discloses that the received second triggering signal is a system timeout signal [col. 10, lines 13-37; state of phase 2 when a time-out of the integration control circuit occurs].
- 16. As per claims 6, 19 and 37, Tsujii discloses that the received second triggering signal is a deactivation signal and predictor signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; see table 1].
- 17. As per claims 7, 20 and 38, Tsujii discloses that the predictor signal is derived from a prediction model [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; see table 1].
- 18. As per claims 8, 21 and 39, Tsujii discloses that the prediction model is based on one or more correlation of pressure data, correlation of force data, probability prediction based time and

10/805,753

Art Unit: 2115

force of activation, statistic based on prior use, patient identifier indicia reader [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; see table 1].

- 19. As per claims 9, 22 and 40, Tsujii discloses that the received first triggering signal is a deactivation signal, wherein the received second triggering signal is an imaging acquisition completed signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; see table 1].
- 20. As per claims 10, 23 and 41, Tsujii discloses that the first power consumption state is an on state; wherein the second power consumption state is an off state [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; see table 1].
- 21. As per claims 11, 24 and 42, Tsujii discloses that the received second trigger signal is absence of timeout, presence of a deactivation, and presence of a predictor signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; see table 1].
- 22. As per claims 12, 25 and 43, Tsujii discloses that the first power consumption state is an on state; wherein the second power consumption state is an idle state [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; see table 1].

10/805,753 Art Unit: 2115

- 23. As per claims 13, 26 and 44, Tsujii discloses that the received second triggering signal is a system timeout signal [col. 10, lines 13-37; state of phase 2 when a time-out of the integration control circuit occurs].
- As per claim 28, Tsujii discloses that the received first triggering signal is one of activation signal, deactivation signal, or system timeout signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; see table 1]; wherein the received second triggering signal is one of deactivation and predictor signal, system timeout signal, or image acquisition completed signal [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; see table 1]; the first power consumption state is either an off state, an idle state, an on state; and the second power consumption state is either an off state, an idle state, an on state [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7; see table 1].
- 25. As per claim 32, Tsujii discloses that the activation switch further comprises one of an electrical switch, an optical switch, or a capacitive switch [col. 8, lines 58-66; at least two switches].
- 26. As per claim 33, Tsujii discloses that automatically changing of medical imaging detector to a first power consumption state occurs only if the first triggering signal exceeds an appreciable level [col. 2, lines 12-26; col. 10, lines 13-37; col. 11, lines 3-15; Fig. 4 and 7].

10/805,753 Art Unit: 2115

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suresh K. Suryawanshi whose telephone number is 571-272-3668. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C. Lee can be reached on 571-272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Suresh K Suryawanshi